

Title (en)

APPARATUS FOR CHECKING THE DIMENSIONAL AND GEOMETRIC FEATURES OF PINS

Title (de)

VORRICHTUNG ZUR ÜBERPRÜFUNG VON GRÖSSEN-UND GEOMETRISCHEN MERKMALEN VON ZAPFEN

Title (fr)

DISPOSITIF PERMETTANT DE VERIFIER LES CARACTERISTIQUES GEOMETRIQUES ET DIMENSIONNELLES DE TIGES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO03106108A1] An apparatus for checking diameter and roundness of crankpins (42) in the course of the machining in a grinding machine, includes a Vee-shaped reference device (70), a gauging device with a movable feeler (67) associated with the Vee-shaped device (70) and a movable support (60) device for the Vee-shaped reference device. The movable support (5) device is coupled to the grinding-wheel slide (1) and includes, in working condition, two parallelogram structures (40, 41) in series enabling substantially translation displacements of the Vee-shaped device (70). One of the two parallelogram structures (40, 41) includes an axially movable stem (32), with end surfaces (38, 39) that, in working condition, contact the external surface of bearings (15, 19), thereby setting the distance separating two of the four vertexes (11, 7, 14, 18) of the parallelogram (40), whereas when the apparatus is in the rest position, at least one of said end surfaces (38, 39) is separated from the surface of the associated bearing. During the checking, the direction of the feeler (67) displacements remains substantially unaltered.

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